

AAAAAA AA AA AA AA	00000000 00000000 00000000 00000000000		DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	
RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	QQQQQQ QQ QQ QQ QQ			

DEFINITION FILE FOR ACL EDITOR COMPILATION

Version 'V04-000'

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FACILITY: Miscellaneous utilities

ABSTRACT:

These are the data stucture definitions and random macros used to compile the ACL editor.

**ENVIRONMENT:** 

VAX/VMS operating system, user mode utilities.

AUTHOR:

L. Mark Pilant

CREATION DATE: 7-Jul-1982 10:10

MODIFIED BY:

V03-009 LMP0270 L. Mark Pilant, 29-Jun-1984 8:51 Add definition for the control-C abort message.

V03-008 LMP0213 L. Mark Pilant, 24-Mar-1984 12:23 Add support for locking and unlocking the object's ACL.

- V03-007 LMP0193 L. Mark Pilant. 14-Feb-1984 12:44 Move the journal and recovery file RMS structures to the common storage as they are referenced from multiple modules.
- V03-006 LMP0181 L. Mark Pilant, 17-Jan-1984 10:02 Add support for the \$CHANGE\_ACL system service instead of direct ACP calls.
- V03-005 LMP0172 L. Mark Pilant, 28-Nov-1983 12:11 Numerous bug fixes, support for VT2xx terminals, and a session keystroke logger.
- V03-004 LMP0138 L. Mark Pilant, 17-Aug-1983 8:59 Misc fixes to prompt mode to cure ACCVIOs.
- V03-003 LMP0124 L. Mark Pilant, 22-Jun-1983 11:37 Change OWNER access definition to CONTROL.
- V03-002 LMP0103 L. Mark Pilant, 20-Apr-1983 10:23 Add support for the HIDDEN and PROTECTED ACE flag bits.
- V03-001 LMP0074 L. Mark Pilant, 20-Jan-1983 12:02 Add support for modifying the RMS journal bits if the curresponding ACE is added or deleted.

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16-SEP-1984 16:47:25.72 Page 3
ACLEDIDEF . REQ: 1
! Local definition files.
REQUIRE 'LIBS: AEDLCLDEF':
! Declare VAX built in functions.
BUILTIN
            INSQUE,
            REMQUE:
! Macros to allocate and deallocate dynamic memory.
MACRO
           ALLOCATE (SIZE, ADDRESS) =
BEGIN
EXTERNAL ROUTINE
                                                          LIBSGET_VM : ADDRESSING_MODE (GENERAL);
                       LOCAL VM STATUS;

VM_STATUS = LIBSGET_VM (%REF (SIZE), ADDRESS);

IF .VM_STATUS THEN CHSFILL (0, SIZE, .ADDRESS);

.VM_STATUS
                        END
           DEALLOCATE (SIZE, ADDRESS) =
                       BEGIN
                        EXTERNAL ROUTINE
                                                          LIBSGET_VM : ADDRESSING_MODE (GENERAL);
                       LIBSFREE_VM (%REF (SIZE), ADDRESS);
! Macro to signal an error and save the worst case error condition.
MACRO
           SIGNAL
                       (ARG) =
                       BEGIN
                        EXTERNAL ROUTINE
                                                          LIB$SIGNAL : ADDRESSING_MODE (GENERAL);
                       IF .AED_L_FLAGS[AED_V_SCOPE]
                        THEN
                             BEGIN
                             SCRSERASE PAGE (21, 1);
SCRSSET_CURSOR (21, 1);
                       LIBSSIGNAL (ARG XIF XLENGTH-1 GTR O XTHEN, XREMAINING XFI);

IF .AED L FLAGS[AED V SCOPE]

THEN SCRSSET_CURSOR (TAED B LINE, .AED B COLUMN);

IF (ARG AND STSSM SEVERITY) NEQ STSSK WARNING

AND (.AED L WORSTERR AND STSSM SEVERITY) LSS

(ARG AND STSSM_SEVERITY) THEN AED L WORSTERR = ARG;
! Shared message definitions.
                       (AED, 277, LOCAL, (OPENIN, ERROR),
$SHR_MSGDEF
                        (CLOSEIN, ERROR),
```

ACLEDIDEF . REQ; 1

16-SEP-1984 16:47:25.72 Page 4

(READERR, ERROR), (WRITEERR, ERROR)

```
! Define common storage structure.
```

```
PSECT OWN=AED_COMMON(OVERLAY,ADDRESSING_MODE(WORD_RELATIVE),ALIGN(0));
OWN
```

```
AED_L_FLAGS : $BBLOCK [4],
AED_B_OPTIONS : $BBLOCK [1],
AED_L_OBJTYP,
AED_Q_OBJNAM : $BBLOCK [DSC$C_S_
AED_L_WORSTERR,
AED_L_PAGEWIDTH,
AED_L_PAGESIZE,
AED_B_COLUMN : VECTOR [1,BYTE],
AED_B_SAVE_COL : VECTOR [1,BYTE],
AED_B_SAVE_LIN : VECTOR [1,BYTE],
AED_B_SAVE_LIN : VECTOR [1,BYTE],
AED_Q_LINETABLE : $BBLOCK [12],
                                                                                                                                                                                                                                     ! Useful flags
! Qualifier option flags
! Target object type code
! Object name descr
                                                                                              : $BBLOCK [DSC$C_S_BLN],
                                                                                                                                                                                                                                              Worst error encountered
                                                                                                                                                                                                                                            Device line width
Number of lines on the page
Current column position
Current line position
                                                                                                                                                                                                                                           Last set column position
Last set line position
Input line queue head
Note: Extra longword is
                                                                                                                                                                                                                                              necessary because of the way the string search loop is
AED_L_CURACE : REF $BBLOCK,
AED_L_FIRSTLINE : REF $BBLOCK,
AED_L_LASTLINE : REF $BBLOCK,
AED_L_BEGINLINE : REF $BBLOCK,
AED_U_INPUTLEN : VECTOR[1, WORD],
AED_Q_DEL_ACE : $BBLOCK [BSC$C_S_BLN],
AED_Q_DEL_LINE : $BBLOCK [DSC$C_S_BLN],
AED_Q_DEL_WORD : $BBLOCK [DSC$C_S_BLN],
AED_D_DEL_CHAR : VECTOR [1, BYTE],
AED_A_ACLBUFFER : REF $BBLOCK,
AED_Q_OUTLINE : $BBLOCK [DSC$C_S_BLN],
AED_W_OBJCHAN : VECTOR [1, WORD],
AED_W_TERMOUT : VECTOR [1, WORD],
AED_W_TIELDEND : VECTOR [1, WORD],
AED_W_FIELDEND : VECTOR [1, WORD],
AED_W_TIEMBEG : VECTOR [1, WORD],
AED_W_TOTALSIZE : VECTOR [1, WORD],
AED_W_TOTALSIZE : VECTOR [1, WORD],
AED_T_CURLINE : $BBLOCK [512 + $BYTEOFF]
                                                                                                                                                                                                                                           designed.
Address of current ACE
first line segment of ACE
Last line segment of ACE
Address of first line in display
Size of current ACE text
Deleted ACE line queue head
! Deleted line descr
! Deleted word descr
                                                                                                                                                                                                                                               Deleted character
                                                                                                                                                                                                                                           Address of binary ACE
! Output line descr
Channel for ACL I/O
Terminal input channel
Terminal output channel
I/O status block
Routine exit status
Current field number
Regioning position of fiel
                                                                                                                                                                                                                                              Beginning position of field
End position of field
                                                                                                                                                                                                                                               Current item number
                                                                                           : VECTOR [1, WORD], Beginning position of item
: VECTOR [1, WORD], End position of item
: VECTOR [1, BYTE], ACE type (for prompting)
: VECTOR [1, WORD], RMS journaling flags from header
: $BBLOCK [512 + $BYTEOFFSET (LINE T TEXT)],
Input line segment storage
: VECTOR [1, WORD], Total size of all ACE segments
     AED_W_TOTALSIZE : VECTOR [1, WORD].
```

## ! Journal and recovery file RMS data structures.

JOURNAL_FAB	: SFAB_DECL.	! Journal file FAB ! Journal file NAM block ! Journal file RAB ! Journal file PROtection XAB ! Storage for journaled keys
JOURNAL_FAB JOURNAL_NAM	: \$FAB_DECL, : \$NAM_DECL, : \$RAB_DECL, : \$XABPRO_DECL, : VECTOR [10, BYTE],	! Journal file NAM block
JOURNAL RAB JOURNAL XABPRO JOURNAL BUFFER	: \$RAB_DECL,	! Journal file RAB
JOURNAL_XABPRO	: \$XABPRO_DECL,	! Journal file PROtection XAB
JOURNAL_BUFFER	: VECTOR [10, BYTE],	! Storage for journaled keys

```
ACLEDTDEF.REQ:1

JOURNAL_INDEX,
RECOVER_FAB: $FAB_DECL,
RECOVER_NAM: $NAM_DECL,
RECOVER_RAB: $FAB_DECL,
RECOVER_RAB: $RAB_DECL,
RECOVER_RAB: $RAB_DECL,
RECOVER_BUFFER: VECTOR [10, BYTE],
RECOVER_INDEX;

PSECT: OWN=$OWN$(CONCATENATE,ADDRESSING_MODE(WORD_RELATIVE),ALIGN(2));
```

```
16-SEP-1984 16:47:25.72 Page 7
 ACLEDIDEF . REQ:1
! External routines
EXTERNAL ROUTINE
                              CLISGET_VALUE : ADDRESSING_MODE (GENERAL). ! Get qualifier value
CLISPRESENT : ADDRESSING_MODE (GENERAL). ! See if qualifier present
LIBSFREE_VM : ADDRESSING_MODE (GENERAL). ! Release dynamic memory
LIBSGET_VM : ADDRESSING_MODE (GENERAL). ! Allocate dynamic memory
LIBSTPARSE : ADDRESSING_MODE (GENERAL). ! General purpose parser
SCRSDOWN_SCROLL : ADDRESSING_MODE (GENERAL). ! Scroll display down 1 line
SCRSERASE_LINE : ADDRESSING_MODE (GENERAL). ! Erase a line of the display
SCRSERASE_PAGE : ADDRESSING_MODE (GENERAL). ! Erase a portion of the display
SCRSSET_CORSOR : ADDRESSING_MODE (GENERAL). ! Set display cursor position
SCRSSET_SCROLL : ADDRESSING_MODE (GENERAL). ! Set display scrolling region
SCRSUP_SCROLL : ADDRESSING_MODE (GENERAL). ! Set display up 1 line
! External error message definitions
EXTERNAL LITERAL
! fatal error.
                               AED$_OBJLOCKED,
! Recoverable errors.
                              AEDS_BADKEEP,
AEDS_LOCATERR,
AEDS_INIREADERR,
! Warning messages.
                              AEDS JOUWRITERR,
AEDS JOUOPENOUT,
AEDS JOUCLOSOUT,
AEDS RECREADERR,
AEDS RECOPENIN,
AEDS RECLOSEIN,
AEDS BADUIC,
AEDS BADUIC,
AEDS BADGRPMEM,
AEDS BADTYPE,
AEDS MUSTENTER,
AEDS MUSTENTER,
AEDS INICLOSIN,
AEDS INICLOSIN,
AEDS DEFSYNTAX,
AEDS NODELETE,
AEDS NOMODIFY,
AEDS NOHIDDEN,
AEDS NOCOMBINE,
AEDS NOCOMBINE,
AEDS NOCOMBINE,
AEDS NODEFAULT,
! Informational messages.
```

AED\$\_NOCTRLCHAR,

16-SEP-1984 16:47:25.72 Page 8

AEDS\_NOTFOUND, AEDS\_CONTROL\_C,

! Success messages.

AEDS\_ACLUPDATED, AEDS\_NOCHANGE; Q002 AH-BT13A-SE

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